OIPE

#2

RAW SEQUENCE LISTING   DATE: 04/24/2001
PATENT APPLICATION: US/09/749,972   TIME: 11:15:00

Input Set : N:\Crf3\RULE60\09749972.txt
Output Set: N:\CRF3\04242001\I749972.raw

ENTERED

```
 4 <110> APPLICANT: Burnham, Martin K. R.
 5         Zalacain, Magdalena
 6         Biswas, Sanjoy
 7         Chalker, Alison F.
 8         Ingraham, Karen A.
 9         Traini, Christopher M.
10         Warren, Patrick V.
12 <120> TITLE OF INVENTION: tdk
15 <130> FILE REFERENCE: GM10201
17 <140> CURRENT APPLICATION NUMBER: 09/749,972
18 <141> CURRENT FILING DATE: 2000-12-28
20 <150> PRIOR APPLICATION NUMBER: 09/259,109
21 <151> PRIOR FILING DATE: 1999-02-26
23 <160> NUMBER OF SEQ ID NOS: 3
25 <170> SOFTWARE: FastSEQ for Windows Version 3.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 639
29 <212> TYPE: DNA
30 <213> ORGANISM: Streptococcus pneumoniae
32 <400> SEQUENCE: 1
33  atgtcaaaag gatttttagt ctctcttgag ggaccagagg gagcaggcaa gaccagtgtt    60
34  ttagaggctc tgctaccaat tttagaggaa aaaggagtag aggtgttgac gacccgtgaa   120
35  cctggcggag tcttgattgg ggagaagatt cgggaagtga ttttggatcc aagtcatact   180
36  cagatggatg ctaaaacaga gctacttctc tatattgcca gtcgcagaca gcatttggtg   240
37  gaaaaagttc ttccagccct tgaagctggc aagttggtca tcatggatcg ttttatcgat   300
38  agttctgttg cctatcaggg atttggtcgt ggcttagata ttgaagccat tgactggctc   360
39  aatcagtttg cgacagatgg gctcaaaccc gatttgacac tctattttga catcgaggtg   420
40  gaagaagggc tggctcgtat tgctgcgaat agtgaccgcg aggttaatcg tttggatttg   480
41  gaagggttgg acttgcataa aaaagttcgt caaggctacc tttctcttct ggataaagag   540
42  ggaaatcgca ttgtcaagat tgatgctagt ctccctttgg agcaagttgt ggaaactacc   600
43  aaggctgtct tgtttgacgg aatgggcttg gccaaatga                          639
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 212
47 <212> TYPE: PRT
48 <213> ORGANISM: Streptococcus pneumoniae
50 <400> SEQUENCE: 2
51  Met Ser Lys Gly Phe Leu Val Ser Leu Glu Gly Pro Glu Gly Ala Gly
52  1               5                  10                  15
53  Lys Thr Ser Val Leu Glu Ala Leu Leu Pro Ile Leu Glu Glu Lys Gly
54              20                  25                  30
55  Val Glu Val Leu Thr Thr Arg Glu Pro Gly Gly Val Leu Ile Gly Glu
56          35                  40                  45
57  Lys Ile Arg Glu Val Ile Leu Asp Pro Ser His Thr Gln Met Asp Ala
58      50                  55                  60
59  Lys Thr Glu Leu Leu Leu Tyr Ile Ala Ser Arg Arg Gln His Leu Val
60  65                  70                  75                  80
61  Glu Lys Val Leu Pro Ala Leu Glu Ala Gly Lys Leu Val Ile Met Asp
```

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62                      85                  90                  95
63   Arg Phe Ile Asp Ser Ser Val Ala Tyr Gln Gly Phe Gly Arg Gly Leu
64               100                 105                 110
65   Asp Ile Glu Ala Ile Asp Trp Leu Asn Gln Phe Ala Thr Asp Gly Leu
66           115                 120                 125
67   Lys Pro Asp Leu Thr Leu Tyr Phe Asp Ile Glu Val Glu Glu Gly Leu
68       130                 135                 140
69   Ala Arg Ile Ala Ala Asn Ser Asp Arg Glu Val Asn Arg Leu Asp Leu
70   145                 150                 155                 160
71   Glu Gly Leu Asp Leu His Lys Lys Val Arg Gln Gly Tyr Leu Ser Leu
72   .               165                 170                 175
73   Leu Asp Lys Glu Gly Asn Arg Ile Val Lys Ile Asp Ala Ser Leu Pro
74               180                 185                 190
75   Leu Glu Gln Val Val Glu Thr Thr Lys Ala Val Leu Phe Asp Gly Met
76           195                 200                 205
77   Gly Leu Ala Lys
78       210
80   <210> SEQ ID NO: 3
81   <211> LENGTH: 25
82   <212> TYPE: DNA
83   <213> ORGANISM: Streptococcus pneumoniae
85   <400> SEQUENCE: 3
86    aactgagact ggctttaaga gatta                                   25
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VERIFICATION SUMMARY
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